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ASSIGNMENT BOOKLET 3A

MAT2225 Mathematics 24
Module 3: Section 1 Assignment and Section 2 Assignment

FOR STUDENT USE ONLY	
Date Assignment Submitted: _____	(If label is missing or incorrect) Student File Number: _____
Time Spent on Assignment: _____	Module Number: _____

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Assigned Teacher: _____

Assignment Grading: _____

Graded by: _____

Date Assignment Received:

Student's Questions and Comments

Apply Module Label Here

Name
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Please verify that preprinted label is for correct course and module.

Teacher's Comments

_____
Teacher

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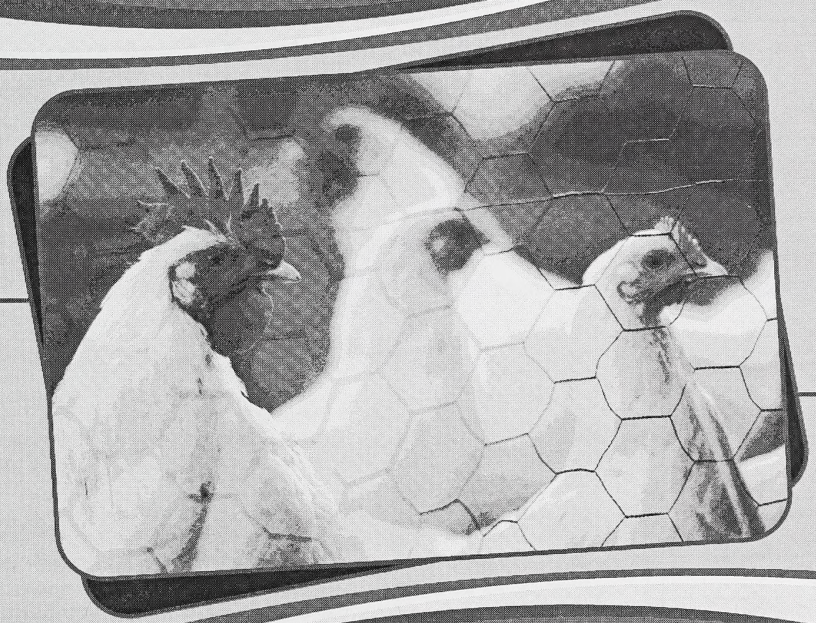
3

MATHEMATICS 24



Module 3
Assignment Booklet 3A

Learning Technologies Branch

Alberta LEARNING

FOR TEACHER'S USE ONLY

Summary

	Total Possible Marks	Your Mark
Section 1 Assignment	27	
Section 2 Assignment	19	
	46	

Teacher's Comments

Mathematics 24
Module 3: Applying Geometry
Assignment Booklet 3A
Section 1 Assignment and Section 2 Assignment
Learning Technologies Branch
ISBN 0-7741-2590-X

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Teachers	✓
Administrators	
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Other	

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ASSIGNMENT BOOKLET 3A
MATHEMATICS 24: MODULE 3
SECTION 1 ASSIGNMENT AND SECTION 2 ASSIGNMENT

This Assignment Booklet is worth 46 marks out of the total 100 marks for the assignments in Module 3. The value of each assignment and each question is stated in the left margin.

Read all parts of your assignment carefully and record your answers in the appropriate places. If you have difficulty with an assignment, go back to your Student Module Booklet and review the appropriate lesson. Be sure to proofread your answers carefully before submitting your Assignment Booklet.

(27)

Section 1 Assignment: Perimeter and Area

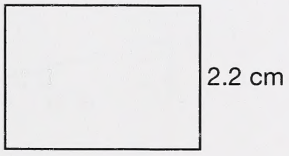
Clearly show how you arrived at your answers by showing your work.

1. Round your answers to two decimal places if needed.

a. Estimate and then calculate the perimeter of the following shapes.

(3)

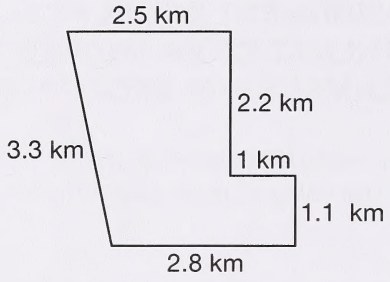
i.



Estimate **Calculate**

(3)

ii.

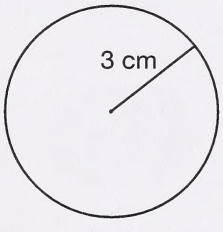


Estimate **Calculate**

b. Estimate and then calculate the circumference of the following circles.

(3)

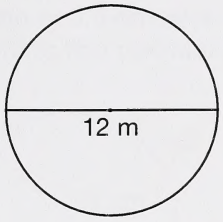
i.



Estimate **Calculate**

(3)

ii.



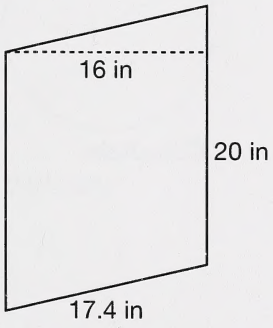
Estimate **Calculate**

Turn to Section 1: Lesson 2 in the Module 3 Student Module Booklet.

2. Estimate and then calculate the area of the following shapes. Round your answers to two decimal places if needed.

(3)

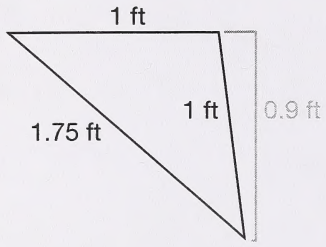
a.



Estimate **Calculate**

(3)

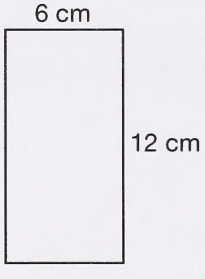
b.



Estimate **Calculate**

(3)

c.



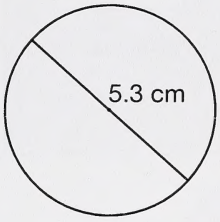
Estimate **Calculate**

Turn to Section 1: Lesson 3 in the Module 3 Student Module Booklet.

3. Estimate and then calculate the area of the following circles. Round your answers to two decimal places if needed.

(3)

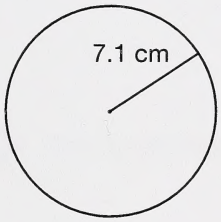
a.



Estimate **Calculate**

(3)

b.



Estimate **Calculate**

Turn to Section 1: Conclusion in the Module 3 Student Module Booklet.

(19)

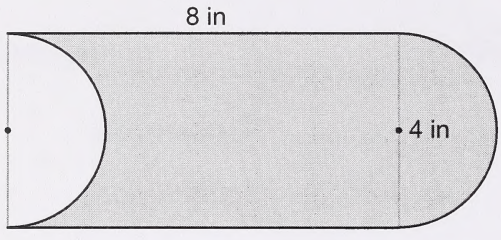
Section 2 Assignment: Area Problems

Clearly show how you arrived at your answers by showing your work.

1. Calculate the shaded area of the following shapes. Round your answers to two decimal places if required.

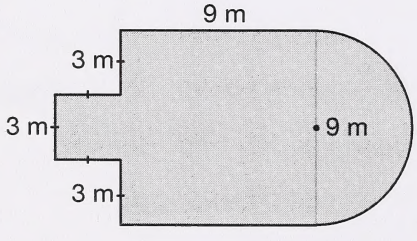
(4)

a.



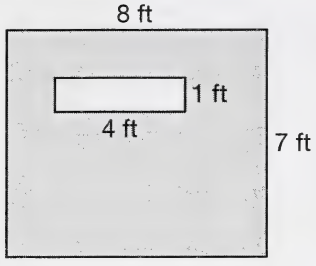
(4)

b.



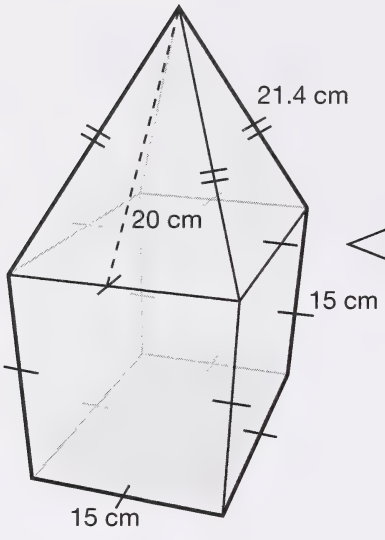
(3)

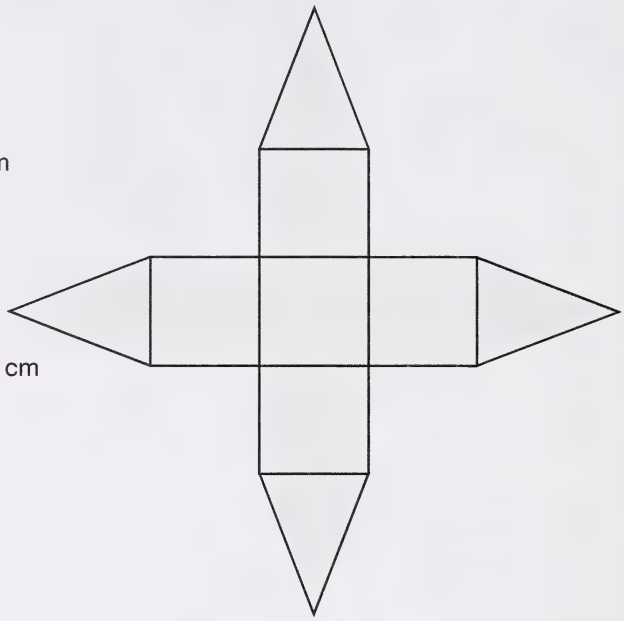
c.



Turn to Section 2: Lesson 2 in the Module 3 Student Module Booklet.

(6) **2.** Calculate the surface area of the following solid. A net for the solid is shown. The solid looks like a pyramid sitting on top of a cube. The cube has sides measuring 15 cm. Each triangular face has a height of 20 cm. The sides of each triangle measure 21.4 cm, 21.4 cm, and 15 cm.



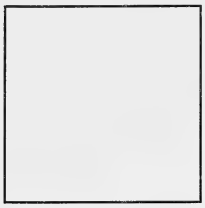


Turn to Section 2: Lesson 3 in the Module 3 Student Module Booklet.

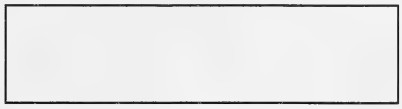
(2)

3. Helen has 300 m of snow fencing. She wants to enclose as large an area as possible. Which of the following shapes should she make her enclosure? Circle your choice.

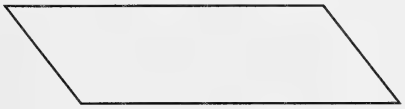
a.



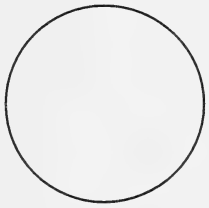
b.



c.



d.



Submit your completed Assignment Booklet 3A to your teacher to be marked.

Turn to Section 2: Conclusion in the Module 3 Student Module Booklet.

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AL.3.3B & 3.3
c.2
v.3

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ASSIGNMENT BOOKLET 3B

MAT2225 Mathematics 24
Module 3: Section 3 Assignment and Final Module Assignment

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Time Spent on Assignment: _____	Module Number: _____

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Assignment Grading: _____

Graded by: _____

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Teacher

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MATHEMATICS 24

Module 3
Assignment Booklet 3B

Learning Technologies Branch

Alberta LEARNING

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Summary

	Total Possible Marks	Your Mark
Section 3 Assignment	21	
Final Module Assignment	33	
	54	

Teacher's Comments

Mathematics 24
Module 3: Applying Geometry
Assignment Booklet 3B
Section 3 Assignment and Final Module Assignment
Learning Technologies Branch
ISBN 0-7741-2591-8

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Other	

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ASSIGNMENT BOOKLET 3B
MATHEMATICS 24: MODULE 3
SECTION 3 ASSIGNMENT AND FINAL MODULE ASSIGNMENT

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Read all parts of your assignment carefully and record your answers in the appropriate places. If you have difficulty with an assignment, go back to your Student Module Booklet and review the appropriate lesson. Be sure to proofread your answers carefully before submitting your Assignment Booklet.

(21)

Section 3 Assignment: Measurement and Volume

Clearly show how you arrived at your answers by showing your work.

(6)

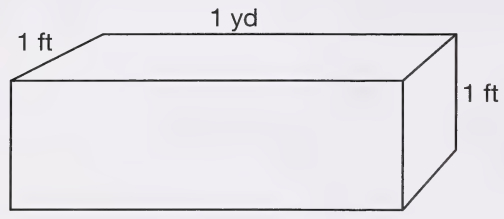
1. On a map the distance from Barrhead to Gunn measures 9 cm. The scale of the map is 1:500 000. What is the approximate distance from Barrhead to Gunn in kilometres?

Turn to Section 3: Lesson 2 in the Module 3 Student Module Booklet.

2. Estimate and then calculate the volume of the following solids.

(4)

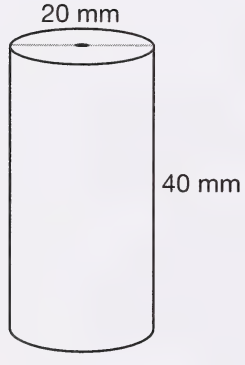
a.



Estimate **Calculate**

(4)

b.



Estimate **Calculate**

Turn to Section 3: Lesson 3 in the Module 3 Student Module Booklet.

(2)

3. a. A sprinter completes the 100-m dash in 10.46 s. Assume she could keep this same speed for 1 km. How long would it take her to run 1 km? Circle your answer.

A. 1.75 minutes
B. 100 seconds
C. 1 minute 46 seconds
D. 17 minutes 26 seconds

(5)

b. A 72-year-old runner set a Canadian age-class record in the 1500-m race with a time of 5 minutes 6 seconds. At this speed, how long would it take him to run 100 m?

Turn to Section 3: Conclusion in the Module 3 Student Module Booklet.

(33)

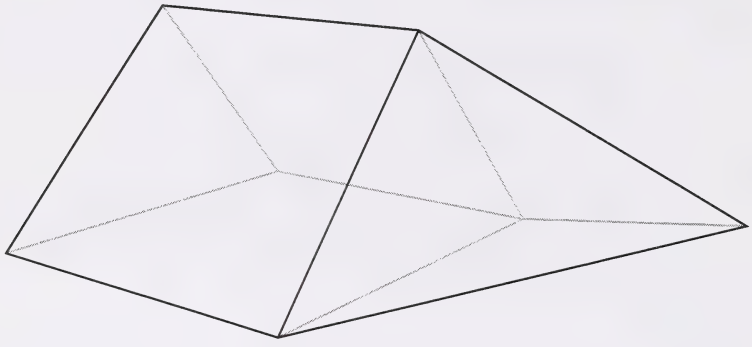
Final Module Assignment

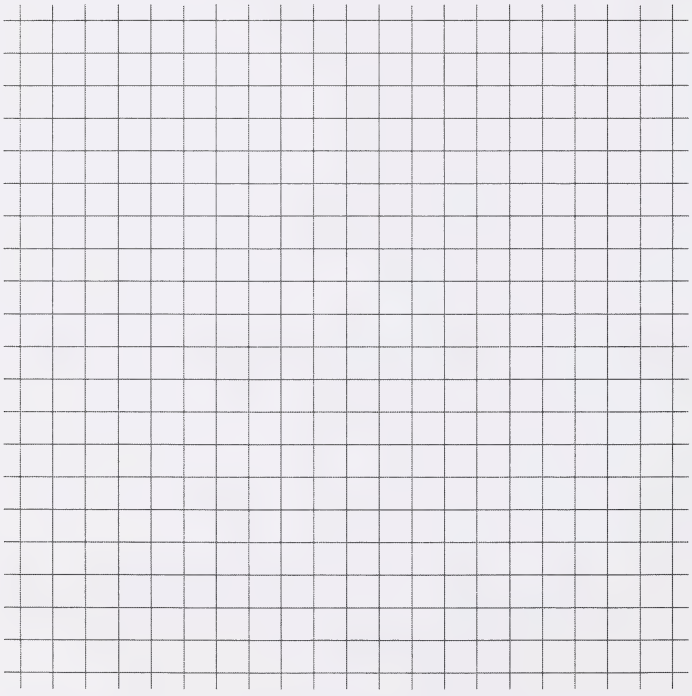
Clearly show how you arrived at your answers by showing your work.

(4)

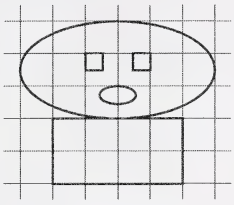
1. A farmer has 50 m of fencing. It comes in 2-m sections that cannot be cut. Use a spreadsheet to find the largest pen that can be built. Attach a printed copy of your spreadsheet in the space below.

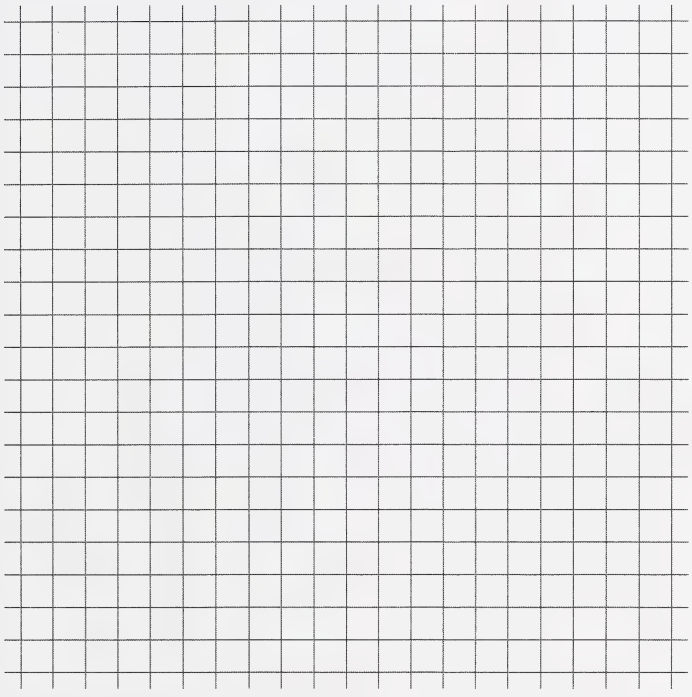
(5) **2.** Draw a net that represents the following solid. The solid is a triangular prism with a triangular pyramid on one end.





(5) **3.** Create an enlargement of the following shape. Make your enlargement 3 times the size of the given shape.

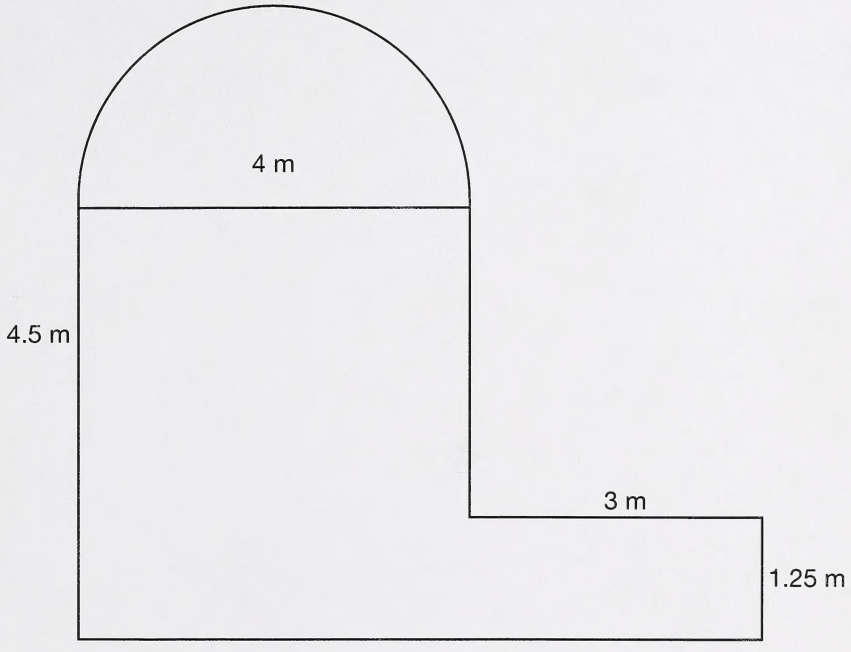




(5) **4.** Alain is preparing a flower garden in his front yard. The front yard is rectangular. It measures 14 m from the sidewalk to the house and is 20 m wide. There is a circular area in the middle of the yard where a tall spruce tree is growing. This area has a diameter of 7 m. How much area is left for growing flowers?

(7)

5. Giselle is planning a backyard swimming pool. She wants it to have a constant depth of 3.5 m so diving from the sides will be safe. The shape of the pool is shown in the following diagram. What volume of water is needed to fill the pool?



(3) **6.** A young sprinter is running at 9.5 m/s. A motorcyclist drives by at 30 km/h. Which person is going faster? (Remember the conversion factors $\frac{1\text{ km}}{1000\text{ m}}$, $\frac{60\text{ s}}{1\text{ min}}$, and $\frac{60\text{ min}}{1\text{ h}}$ that can be used to convert from m/s to km/h.)

(4) **7.** The giant panda has to eat about half of its body weight each day in bamboo shoots to survive. If a giant panda eats 300 kg of food in a week, about what does this panda weigh?

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